CONTENTS

Report of Workshop on the Contribution of Airborne Pollutants to Respiratory Cancer

L. Gordis and L. H. Kuller. Introduction: Workshop on the Contribution of Airborne Pollutants to Respiratory Cancer 3

F. E. Speizer. Overview of the risk of respiratory cancer from airborne contaminants 9

N. Harley, J. M. Samet, F. T. Cross, T. Hess, J. Muller, and D. Thomas. Contribution of radon and radon daughters to respiratory cancer 17

N. Nelson, R. J. Levine, R. E. Albert, A. E. Blair, R. A. Griesemer, P. J. Landrigan, L. T. Stayner, and J. A. Swenberg. Contribution of formaldehyde to respiratory cancer 23

G. Matanoski, L. Fishbein, C. Redmond, H. Rosenkranz, and L. Wallace. Contribution of organic particulates to respiratory cancer 37

G. S. Omenn, J. Merchant, E. Boatman, J. M. Dement, M. Kuschner, W. Nicholson, J. Peto, and L. Rosenstock. Contribution of environmental fibers to respiratory cancer 51

L. H. Kuller, L. Garfinkle, P. Correa, N. Haley, D. Hoffmann, S. Preston-Martin, and D. Sandler. Contribution of passive smoking to respiratory cancer 57

J. M. Peters, D. Thomas, H. Falk, G. Oberdörster, and T. J. Smith. Contribution of metals to respiratory cancer 71

Mechanisms of Reproductive and Developmental Toxicology

Introduction 87

Mechanisms of Teratogenesis

D. Neubert, G. Blankenburg, I. Chahoud, G. Franz, R. Herken, M. Kastner, S. Klug, J. Kröger, R. Krowke, C. Lewandowski, H. J. Merker, T. Schulz, and R. Stahlmann. Results of *in vivo* and *in vitro* studies for assessing prenatal toxicity 89

M. E. Coakley, S. J. Rawlings, and N. A. Brown. Short-chain carboxylic acids, a new class of teratogens: studies of potential biochemical mechanisms 105

H. Nau. Species differences in pharmacokinetics and drug teratogenesis 113

M. R. Juchau, A. G. Fantel, C. Harris, and B. K. Beyer. The potential role of redox cycling as a mechanism for chemical teratogenesis 131

J. M. Manson. Mechanisms of nitrofen teratogenesis 137

Mechanisms of Reproductive Toxicology

R. P. Amann. Detection of alterations in testicular and epididymal function in laboratory animals 149

J. S. Richards. Molecular loci for potential drug toxicity in ovaries 159

R. A. Gorski. Sexual differentiation of the brain: a model for drug-induced alterations of the reproductive system 163

R. L. Cooper, J. M. Goldman, and G. L. Rehnberg. Pituitary function following treatment with reproductive toxins 177

R. F. Walker. Age factors potentiating drug toxicity in the reproductive axis 185

Contributed Articles

R. H. Hinton, F. E. Mitchell, A. Mann, D. Chescoe, S. C. Price, A. Nunn, P. Grasso, and J. W. Bridges. Effects of phthalic acid esters on the liver and thyroid 195

C. R. Elcombe and A. M. Mitchell. Peroxisome proliferation due to di(2-ethylhexyl) phthalate (DEHP): species differences and possible mechanisms 211

G. Eadon, L. Kaminsky, J. Silkworth, K. Aldous, D. Hilker, P. O'Keefe, R. Smith, J. Gierthy, J. Hawley, N. Kim, and A. DeCaprio. Calculation of 2,3,7,8-TCDD equivalent concentrations of complex environmental contaminant mixtures 221

K. U. Schallreuter, K. H. Schulz, and J. M. Wood. Induction of contact dermatitis in guinea pigs by quaternary ammonium compounds: the mechanism of antigen formation 229

G. Pershagen, N. Hammar, and E. Vartiainen. Respiratory symptoms and annoyance in the vicinity of coal-fired plants. 239

C. Bolognesi, M. Taningher, S. Parodi, and L. Santi. Quantitative predictivity of carcinogenicity of the autoradiographic repair test (primary hepatocyte cultures) for a group of 80 chemicals belonging to different chemical classes 247

P. A. Stehr-Green, E. Welty, G. Steele, and K. Steinberg. Evaluation of potential health effects associated with serum polychloriated biphenyl levels 255

J. E. Coggle, B. E. Lambert, and S. R. Moores. Radiation effects in the lung 261

Published Volumes of EHP 293

Instructions to Authors 295